

DERWENT-ACC-NO: 1998-008526
DERWENT-WEEK: 200270
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TITLE: Flexible container for intra-venous solutions - has peelable seals between diluent, medicament, and outlet compartments

INVENTOR: BARNEY, W W; GHARIBIAN, N ; HARVEY, D G ;
MCLONIS, M R ; PEARA, C D
; POOL, S L ; SACCA, G ; SAKAGUCHI, T R ; SANDBERG, S J ;
SMITH, S L ; WALTER,
W V ; WU, N C ; YORK, W A ; YOUNG, H T ; CHUNG-HUI WU, N ;
SKAGUCHI, T R
; YOUNG, T H ; WU, N C H ; YOUNG, T ; MCLONIS, M

PATENT-ASSIGNEE: BRAUN MEDICAL INC B[BINT], MCGAW
INC[MCGA]

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1997US-0837927 (April 11, 1997)
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26, 2002)

PATENT-FAMILY:

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PAGES	MAIN-IPC	
ES 2171929 T3	September 16, 2002	N/A
000	A61B 019/00	
WO 9742897 A1	November 20, 1997	E
120	A61B 019/00	
AU 9724564 A	December 5, 1997	N/A
000	N/A	
ZA 9704106 A	April 29, 1998	N/A
096	B65D 000/00	
NO 9805266 A	January 13, 1999	N/A
000	A61J 001/12	
EP 898466 A1	March 3, 1999	E
000	N/A	
CN 1223558 A	July 21, 1999	N/A
000	N/A	
BR 9708993 A	May 2, 2000	N/A
000	A61B 019/00	
AU 721838 B	July 13, 2000	N/A

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JP 2000510728	August 22, 2000	N/A
140	A61J 001/05	
W	March 11, 2000	N/A
000	A61J 001/10	
TW 384221 A	September 1, 1999	N/A
000	A61B 019/00	
MX 9809425 A1	February 25, 2000	N/A
000	A61B 019/00	
KR 2000011041	December 7, 2000	N/A
000	B65D 025/08	
A	December 12, 2001	E
000	A61J 001/10	
AU 200040851 A	December 12, 2001	E
000	A61B 019/00	
EP 1161932 A2	January 24, 2002	N/A
000	A61B 019/00	
EP 898466 B1	March 28, 2002	N/A
000	B65D 025/08	
DE 69709089 E	June 13, 2002	N/A
000	A61B 019/00	
AU 745670 B		
AU 200237032 A		

DESIGNATED-STATES: AL AM AT AU AZ BA BB BG BR BY CA CH CN
 CU CZ DE DK EE ES FI G
 B GE GH HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD
 MG MK MN MW MX NO NZ
 PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG UZ VN YU AT BE
 CH DE DK EA ES FI FR
 GB GH GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG AT BE
 CH DE DK ES FI FR GB G
 R IE IT LI LU MC NL PT SE AT BE CH DE DK ES FI FR GB GR IE
 IT LI LU MC NL PT SE
 AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

APPLICATION-DATA:

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ES 2171929T3	N/A	1997EP-0920344
April 11, 1997		
ES 2171929T3	Based on	EP 898466
N/A		
WO 9742897A1	N/A	1997WO-US06043
April 11, 1997		
AU 9724564A	N/A	1997AU-0024564

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AU 9724564A	Based on	WO 9742897
N/A		
ZA 9704106A	N/A	1997ZA-0004106
May 13, 1997		
NO 9805266A	N/A	1997WO-US06043
April 11, 1997		
NO 9805266A	N/A	1998NO-0005266
November 11, 1998		
EP 898466A1	N/A	1997EP-0920344
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EP 898466A1	N/A	1997WO-US06043
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N/A		
CN 1223558A	N/A	1997CN-0195877
April 11, 1997		
BR 9708993A	N/A	1997BR-0008993
April 11, 1997		
BR 9708993A	N/A	1997WO-US06043
April 11, 1997		
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AU 721838B	N/A	1997AU-0024564
April 11, 1997		
AU 721838B	Previous Publ.	AU 9724564
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N/A		
JP2000510728W	N/A	1997JP-0540867
April 11, 1997		
JP2000510728W	N/A	1997WO-US06043
April 11, 1997		
JP2000510728W	Based on	WO 9742897
N/A		
TW 384221A	N/A	1997TW-0106354
May 13, 1997		
MX 9809425A1	N/A	1998MX-0009425
November 11, 1998		
KR2000011041A	N/A	1997WO-US06043
April 11, 1997		
KR2000011041A	N/A	1998KR-0709192
November 13, 1998		
KR2000011041A	Based on	WO 9742897
N/A		
AU 200040851A	Div ex	1997AU-0024564
April 11, 1997		

AU 200040851A	N/A	2000AU-0040851
June 14, 2000		
AU 200040851A	Div ex	AU 721838
N/A		
EP 1161932A2	Div ex	1997EP-0920344
April 11, 1997		
EP 1161932A2	N/A	2001EP-0121999
April 11, 1997		
EP 1161932A2	Div ex	EP 898466
N/A		
EP 898466B1	N/A	1997EP-0920344
April 11, 1997		
EP 898466B1	N/A	1997WO-US06043
April 11, 1997		
EP 898466B1	Related to	2001EP-0121999
April 11, 1997		
EP 898466B1	Related to	EP 1161932
N/A		
EP 898466B1	Based on	WO 9742897
N/A		
DE 69709089E	N/A	1997DE-0609089
April 11, 1997		
DE 69709089E	N/A	1997EP-0920344
April 11, 1997		
DE 69709089E	N/A	1997WO-US06043
April 11, 1997		
DE 69709089E	Based on	EP 898466
N/A		
DE 69709089E	Based on	WO 9742897
N/A		
AU 745670B	Div ex	1997AU-0024564
April 11, 1997		
AU 745670B	N/A	2000AU-0040851
June 14, 2000		
AU 745670B	Previous Publ.	AU 200040851
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AU 745670B	Div ex	AU 721838
N/A		
AU 200237032A	Div ex	2000AU-0040851
June 14, 2000		
AU 200237032A	N/A	2002AU-0037032
April 26, 2002		
AU 200237032A	Div ex	AU 745670
N/A		

B1 , DE 69709089 E

INT-CL (IPC): A61B019/00; A61J001/00 ; A61J001/05 ;

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B32B015/08 ;
B32B017/06 ; B32B027/08 ; B32B027/32 ; B65D000/00 ;
B65D025/08 ;
B65D081/32 ; C08L023/16

RELATED-ACC-NO: 1999-327172;1999-327218

ABSTRACTED-PUB-NO: EP 898466B

BASIC-ABSTRACT: Container for storage and administration of IV solutions has flexible front and rear sheets (12,14) sealed to each other about their peripheral edges (16) and with first and second peelable seals (24,26) extending between two sides of the common edge to separably join the front and rear sheets to divide the interior into a diluent compartment (18), and an outlet compartment (22), separated by a medicament compartment (20).

The container has one or more of the following: (a) the medicament compartment (20) has a clear high barrier laminate film (55) sealed to the front sheet, and an opaque high barrier protective film (64) separably sealed to the clear film (55); (b) the front and rear sheets are film layers of polypropylene-polyethylene copolymer blended with styrene ethylene-butylene styrene thermoplastic elastomer sealed to each other around their peripheral edge and the rear sheet layer is laminated to an intermediate layer of an opaque high barrier material, e.g. aluminium foil, with an outer layer of high temperature mould release material; (c) the peelable seals release at a pressure of 3 to 5 lbs/in²; (d) a third peelable seal is provided between the diluent and medicament chambers to form a moisture vapour barrier compartment; (e) the medicament is in powder form; (f) the medicament compartment (20) has a first laminate (55) of a polypropylene layer, a clear

transparent high moisture barrier layer, a clear transparent high oxygen barrier layer, and a polyester layer, sealed to its front surface, and a second opaque laminate (64) of modified ethylene-vinyl-acetate polymer, aluminium foil, and a polyester polymer outer layer is separably sealed to the first laminate (55).

Transparent high moisture vapour barrier film layer is oriented high density polyethylene, polychloro trifluoroethene, or silica deposited polyethylene terephthalate, and the transparent high oxygen barrier material is ethylene vinyl alcohol, polyvinylidene chloride coated polyethylene terephthalate, or silica deposited polyvinyl alcohol.

USE - As a flexible sterile container for mixing medicaments and diluents, by manipulation to break one peelable seal and mix the contents, followed by further manipulation to break the second seal to allow the components to be discharged.

ADVANTAGE - The container is environmentally safe to produce and dispose of, it protects sensitive medicaments from moisture, atmospheric gases and radiation, and allows easy access to visually inspect the contents.

ABSTRACTED-PUB-NO: WO 9742897A
EQUIVALENT-ABSTRACTS: Container for storage and administration of IV solutions has flexible front and rear sheets (12,14) sealed to each other about their peripheral edges (16) and with first and second peelable seals (24,26) extending between two sides of the common edge to separably join the front and rear sheets to divide the interior into a diluent compartment (18), and an outlet compartment (22), separated by a medicament compartment (20).

The container has one or more of the following: (a) the medicament compartment (20) has a clear high barrier laminate film (55) sealed to the front sheet, and an opaque high barrier protective film (64) separably sealed to the clear film (55); (b) the front and rear sheets are film layers of polypropylene-polyethylene copolymer blended with styrene ethylene-butylene styrene thermoplastic elastomer sealed to each other around their peripheral edge and the rear sheet layer is laminated to an intermediate layer of an opaque high barrier material, e.g. aluminium foil, with an outer layer of high temperature mould release material; (c) the peelable seals release at a pressure of 3 to 5 lbs/in²; (d) a third peelable seal is provided between the diluent and medicament chambers to form a moisture vapour barrier compartment; (e) the medicament is in powder form; (f) the medicament compartment (20) has a first laminate (55) of a polypropylene layer, a clear transparent high moisture barrier layer, a clear transparent high oxygen barrier layer, and a polyester layer, sealed to its front surface, and a second opaque laminate (64) of modified ethylene-vinyl-acetate polymer, aluminium foil, and a polyester polymer outer layer is separably sealed to the first laminate (55).

Transparent high moisture vapour barrier film layer is oriented high density polyethylene, polychloro trifluoroethene, or silica deposited polyethylene terephthalate, and the transparent high oxygen barrier material is ethylene vinyl alcohol, polyvinylidene chloride coated polyethylene terephthalate, or silica deposited polyvinyl alcohol.

USE - As a flexible sterile container for mixing medicaments and diluents, by

manipulation to break one peelable seal and mix the contents, followed by further manipulation to break the second seal to allow the components to be discharged.

ADVANTAGE - The container is environmentally safe to produce and dispose of, it protects sensitive medicaments from moisture, atmospheric gases and radiation, and allows easy access to visually inspect the contents.

TITLE-TERMS:

FLEXIBLE CONTAINER INTRA VEIN SOLUTION PEEL SEAL DILUTE
MEDICAMENT OUTLET
COMPARTMENT

ADDL-INDEXING-TERMS:

POLYPROPYLENE POLYETHYLENE POLYSTYRENE POLYBUTYLENE
TEREPHTHALATE POLYESTER
POLYVINYL

DERWENT-CLASS: A14 A17 A23 A96 B07 P31 P33 P34 P73 Q32 Q34

CPI-CODES: A12-P06; A12-V03D; B04-C03B; B04-C03D; B05-A01B;
B11-C06;

CHEMICAL-CODES:

Chemical Indexing M6 *01*

Fragmentation Code

M903 R023 R242 R770

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1]

018 ; R00326 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53
D58 D82 ;

R00964 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53 D58
D83 ; H0022

H0011 ; S9999 S1285*R ; P1150 ; P1285

Polymer Index [1.2]

018 ; R00708 G0102 G0022 D01 D02 D12 D10 D19 D18 D31
D51 D53 D58

D76 D88 ; R00806 G0828 G0817 D01 D02 D12 D10 D51 D54
D56 D58 D84

; H0022 H0011 ; H0135 H0124 ; M9999 M2722 M2711 ; S9999
S1285*R

; P0328 ; P1741 ; P0351 ; P0362

Polymer Index [1.3]

018 ; N9999 N6166 ; B9999 B5334 B5298 B5276 ; K9552
K9483 ; K9698
K9676 ; K9745*R ; K9712 K9676 ; ND01 ; B9999 B4035
B3930 B3838 B3747
; Q9999 Q8026 Q7987 ; Q9999 Q8413 Q8399 Q8366 ; K9416 ;
K9574 K9483
; K9701 K9676 ; Q9999 Q7818*R ; K9814 K9803 K9790 ;
N9999 N6871
N6655

Polymer Index [2.1]

018 ; R00964 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53
D58 D83 ;
H0000 ; S9999 S1285*R ; P1150 ; P1343

Polymer Index [2.2]

018 ; K9870 K9847 K9790 ; B9999 B4397 B4240 ; B9999
B4864 B4853
B4740 ; K9610 K9483 ; ND01 ; B9999 B4035 B3930 B3838
B3747 ; Q9999
Q8026 Q7987 ; Q9999 Q8413 Q8399 Q8366 ; K9416 ; K9574
K9483 ; K9701
K9676 ; Q9999 Q7818*R ; K9814 K9803 K9790 ; N9999 N6871
N6655

Polymer Index [3.1]

018 ; R00326 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53
D58 D82 ;
H0000 ; P1194 P1161 ; S9999 S1285*R ; P1150

Polymer Index [3.2]

018 ; K9870 K9847 K9790 ; B9999 B4397 B4240 ; B9999
B4864 B4853
B4740 ; B9999 B5152*R B4740 ; ND01 ; B9999 B4035 B3930
B3838 B3747
; Q9999 Q8026 Q7987 ; Q9999 Q8413 Q8399 Q8366 ; K9416 ;
K9574 K9483
; K9701 K9676 ; Q9999 Q7818*R ; K9814 K9803 K9790 ;
N9999 N6871
N6655

Polymer Index [4.1]

018 ; P0884 P1978 P0839 H0293 F41 D01 D11 D10 D19 D18
D31 D50 D63
D90 E21 E00 ; S9999 S1285*R

Polymer Index [4.2]

018 ; K9870 K9847 K9790 ; B9999 B4397 B4240 ; B9999
B4864 B4853
B4740 ; K9610 K9483 ; B9999 B5436 B5414 B5403 B5276 ;
B9999 B5447
B5414 B5403 B5276 ; ND01 ; B9999 B4035 B3930 B3838

B3747 ; Q9999
 Q8026 Q7987 ; Q9999 Q8413 Q8399 Q8366 ; K9416 ; K9574
 K9483 ; K9701
 K9676 ; Q9999 Q7818*R ; K9814 K9803 K9790 ; N9999 N6871
 N6655
 Polymer Index [5.1]
 018 ; P1707 P1694 D01 ; S9999 S1285*R
 Polymer Index [5.2]
 018 ; K9870 K9847 K9790 ; B9999 B4397 B4240 ; B9999
 B4864 B4853
 B4740 ; K9610 K9483 ; B9999 B5436 B5414 B5403 B5276 ;
 ND01 ; B9999
 B4035 B3930 B3838 B3747 ; Q9999 Q8026 Q7987 ; Q9999
 Q8413 Q8399
 Q8366 ; K9416 ; K9574 K9483 ; K9701 K9676 ; Q9999
 Q7818*R ; K9814
 K9803 K9790 ; N9999 N6871 N6655
 Polymer Index [6.1]
 018 ; R00360 G0555 G0022 D01 D12 D10 D51 D53 D58 D69
 D82 C1 7A ;
 H0000
 Polymer Index [6.2]
 018 ; K9870 K9847 K9790 ; B9999 B4397 B4240 ; B9999
 B4864 B4853
 B4740 ; Q9999 Q7114*R ; K9610 K9483 ; ND01 ; B9999
 B4035 B3930 B3838
 B3747 ; Q9999 Q8026 Q7987 ; Q9999 Q8413 Q8399 Q8366 ;
 K9416 ; K9574
 K9483 ; K9701 K9676 ; Q9999 Q7818*R ; K9814 K9803 K9790
 ; N9999
 N6871 N6655
 Polymer Index [7.1]
 018 ; R00458 G0022 D01 D12 D10 D53 D51 D59 D69 D82 F*
 7A C1 ; H0000
 ; S9999 S1285*R
 Polymer Index [7.2]
 018 ; R00326 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53
 D58 D82 ;
 H0011*R ; P1332 P1694 ; S9999 S1285*R ; P1150
 Polymer Index [7.3]
 018 ; K9870 K9847 K9790 ; B9999 B4397 B4240 ; B9999
 B4864 B4853
 B4740 ; K9610 K9483 ; ND01 ; B9999 B4035 B3930 B3838
 B3747 ; Q9999
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 K9483 ; K9701
 K9676 ; Q9999 Q7818*R ; K9814 K9803 K9790 ; N9999 N6871

N6655
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 018 ; P0839*R F41 D01 D63 ; S9999 S1285*R
 Polymer Index [8.2]
 018 ; K9870 K9847 K9790 ; B9999 B4397 B4240 ; B9999
 B4864 B4853
 B4740 ; K9610 K9483 ; ND01 ; B9999 B4035 B3930 B3838
 B3747 ; Q9999
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 Polymer Index [9.1]
 018 ; R00326 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53
 D58 D82 ;
 R00835 G0566 G0022 D01 D11 D10 D12 D51 D53 D58 D63 D84
 F41 F89 ;
 H0022 H0011 ; M9999 M2391 ; S9999 S1285*R ; P1150 ;
 P1310
 Polymer Index [9.2]
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 K9483 ; K9701
 K9676 ; Q9999 Q7818*R ; K9814 K9803 K9790 ; N9999 N6871
 N6655
 Polymer Index [10.1]
 018 ; P0839*R F41 D01 D63 ; S9999 S1285*R
 Polymer Index [10.2]
 018 ; K9870 K9847 K9790 ; B9999 B4375 B4240 ; B9999
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 ; N9999
 N6871 N6655

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